



# Quick Installation Guide

# RGMC-111GPB

# Industrial Card Type Media Converter

## Introduction

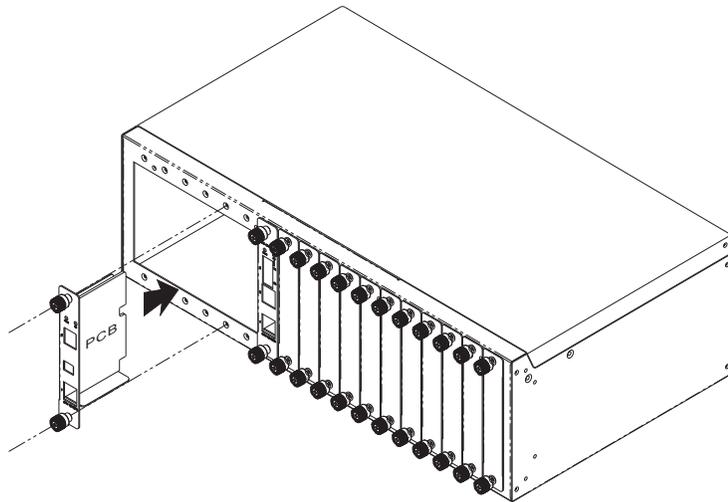
RGMC-111GPB is industrial rack mount card type Ethernet to fiber media converter for rack-mounted chassis box of RMC-1000, which supports hot-swappable and easy installation. RGMC-111GPB is a cost-effective solution for the conversion between 100/1000Base-T(X) and 100/1000Base-X SFP interface, it allows you to extend communication distance by optical fiber. RGMC-111GPB supports MDI/MDIX auto detection, so you don't need to use crossover wires. Therefore, the RGMC-111GPB is reliable media converter and can satisfy most demand of operating environment.



## Features

- > Supports 1 port 100/1000Base-T(X) auto-negotiation and auto-MDI/MDI-X
- > Support Ethernet to SFP port conversion
- > Ethernet port supports full/half duplex operation
- > SFP port support full-duplex operation
- > Provided DIP-Switch for SFP speed setting
- > Hot-swappable, high reliability and easy installation
- > Up to 18 slot high density installation in RMC-1000 chassis on 19 inches rack

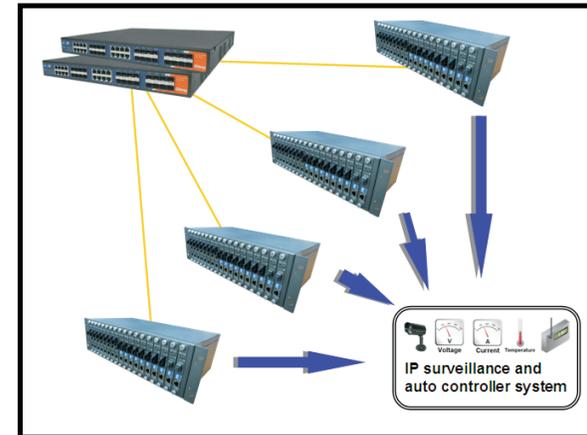
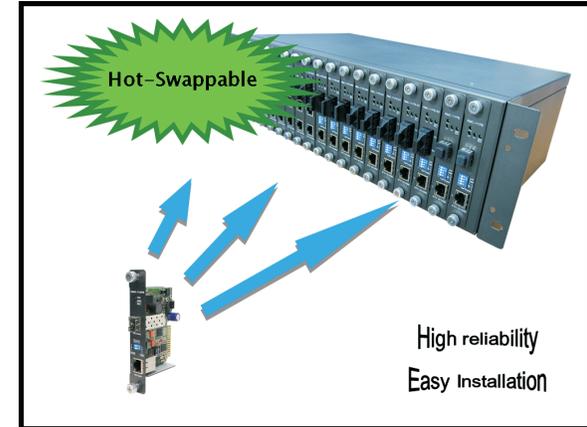
## Installation



## Specifications

ORing Media Converter Model	RGMC-111GPB
<b>Physical Ports</b>	
100/1000 Base-T(X) Ports in RJ45 Auto MDI/MDIX	1
100/1000Base-X SFP port	1
<b>Technology</b>	
Ethernet standards	IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3ab for 1000Base-T IEEE 802.3z for 1000Base-X
DIP-Switch setting	DIP-Switch 1 (ON) and DIP-Switch 2 (ON) : SFP speed setting to 100Mbps DIP-Switch 1 (OFF) and DIP-Switch 2 (OFF) : SFP speed setting to 1000Mbps
<b>LED Indicators</b>	
Power indicator	Green : (ON) power input on-line / (OFF) power input off-line
100/1000Base-T(X) RJ45 port indicator	LED for Link/Act and Speed indicator ~ Green on only : 1000Mbps Link/Act - (ON) Link up / (Flash) Acting / (OFF) Link down Green and Amber on : 100Mbps Link/Act - (ON) Link up / (Flash) Acting / (OFF) Link down <b>* Note : If amber on only : 10Mbps (This is not valid mode)</b>
100/1000Base-X fiber port indicator	Green for fiber port Link/Act - (ON) Link up / (Flash) Acting / (OFF) Link down
<b>Power</b>	
Power consumption(Typ.)	3.6 Watts
Overload current protection	Present
<b>Physical Characteristic</b>	
Dimension (W x D x H)	21.8 (W) x 73.1 (D) x 126 (H)mm (0.86 x 2.88 x 4.96 inch)
Weight (g)	145 g
<b>Environmental</b>	
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	-10 to 60°C (14 to 140°F)
Operating Humidity	5% to 95% Non-condensing
<b>Regulatory Approvals</b>	
EMI	FCC Part 15, CISPR (EN55022) class A
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11
Shock	IEC60068-2-27
Free Fall	IEC60068-2-32
Vibration	IEC60068-2-6
<b>Warranty</b>	2 years

## Connections of Media converter



## Working Status

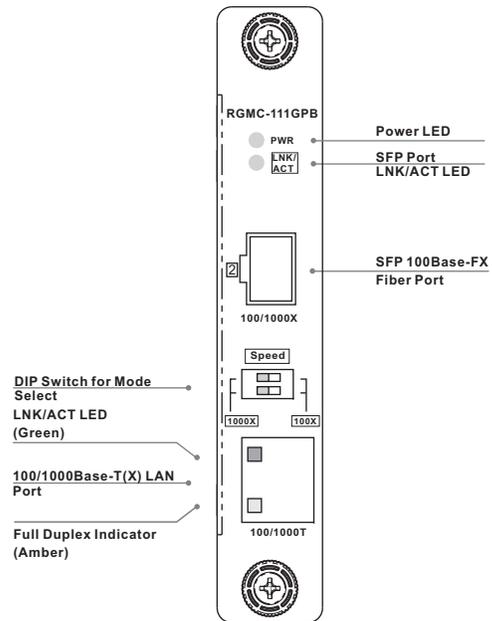
Ethernet Port Status	SFP Fiber Port Status	Working status
100Mbps	100Mbps	Valid
100Mbps	1000Mbps	Invalid
1000Mbps	1000Mbps	Valid
1000Mbps	100Mbps	Invalid

# Quick Installation Guide

## RGMC-111GPB

## Industrial Card Type Media Converter

### Front Panel



■ DIP Switch Function

DIP-Switch	Description
ALL ON	SFP speed setting to 100Mbps
ALL OFF	SFP speed setting to 1000Mbps

### Accessory

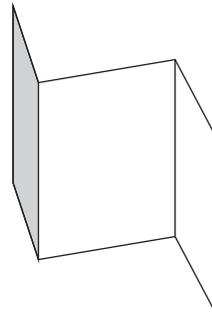
① Dust Cover (RJ-45)



② Dust Cover (SFP)



③ QIG



### Communication Connections

#### 1000Base-T Ethernet Connection

##### ■ RJ45 (8-pin, MDI) Port Pinouts

Pin	MDI
1	BI_DA+
2	BI_DA-
3	BI_DB+
4	BI_DB-
5	BI_DC+
6	BI_DC-
7	BI_DD+
8	BI_DD-

##### ■ RJ45 (8-pin, MDI-X) Port Pinouts

Pin	MDI-X
1	BI_DB+
2	BI_DB-
3	BI_DA+
4	BI_DD+
5	BI_DD-
6	BI_DA-
7	BI_DC+
8	BI_DC-

#### 100Base-TX Ethernet Port Connection

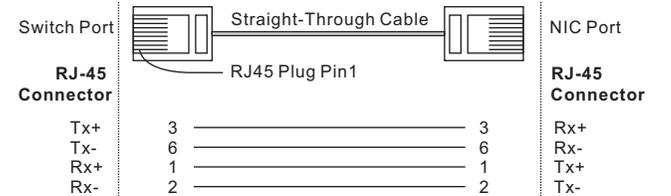
##### ■ RJ45 (8-pin, MDI) Port Pinouts

Pin	Single
1	Tx+
2	Tx-
3	Rx+
6	Rx-

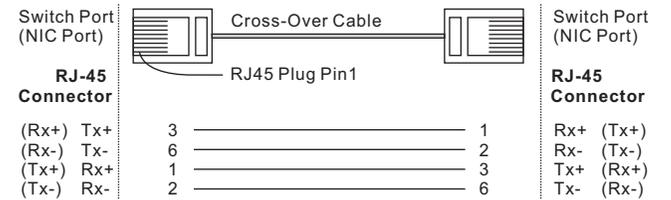
##### ■ RJ45 (8-pin, MDI-X) Port Pinouts

Pin	Single
1	Rx+
2	Rx-
3	Tx+
6	Tx-

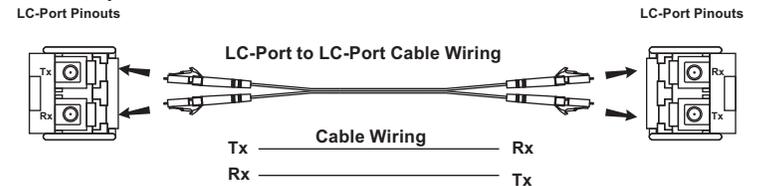
#### ■ RJ45 (8-pin) to RJ45 (8-Pin) Straight-Through Cable Wiring



#### ■ RJ45 (8-pin) to RJ45 (8-Pin) Cross-Over Cable Wiring



#### 100/1000Base-X SFP Port Connection



### Packing list

Model name	Model Description	Accessory
RGMC-111GPB	Industrial Rack mount card type Ethernet to fiber media converter with 1x100/1000Base-T(X) and 1x100/1000Base-X SFP socket	① X 1, ② X 1, ③ X 1



Copyright© 2012 ORing  
All rights reserved.



TEL: +886-2-2218-1066 Website: www.oring-networking.com  
FAX: +886-2-2218-1014 E-mail: support@oring-networking.com